Google Cloud

Lab - Rate Limiting

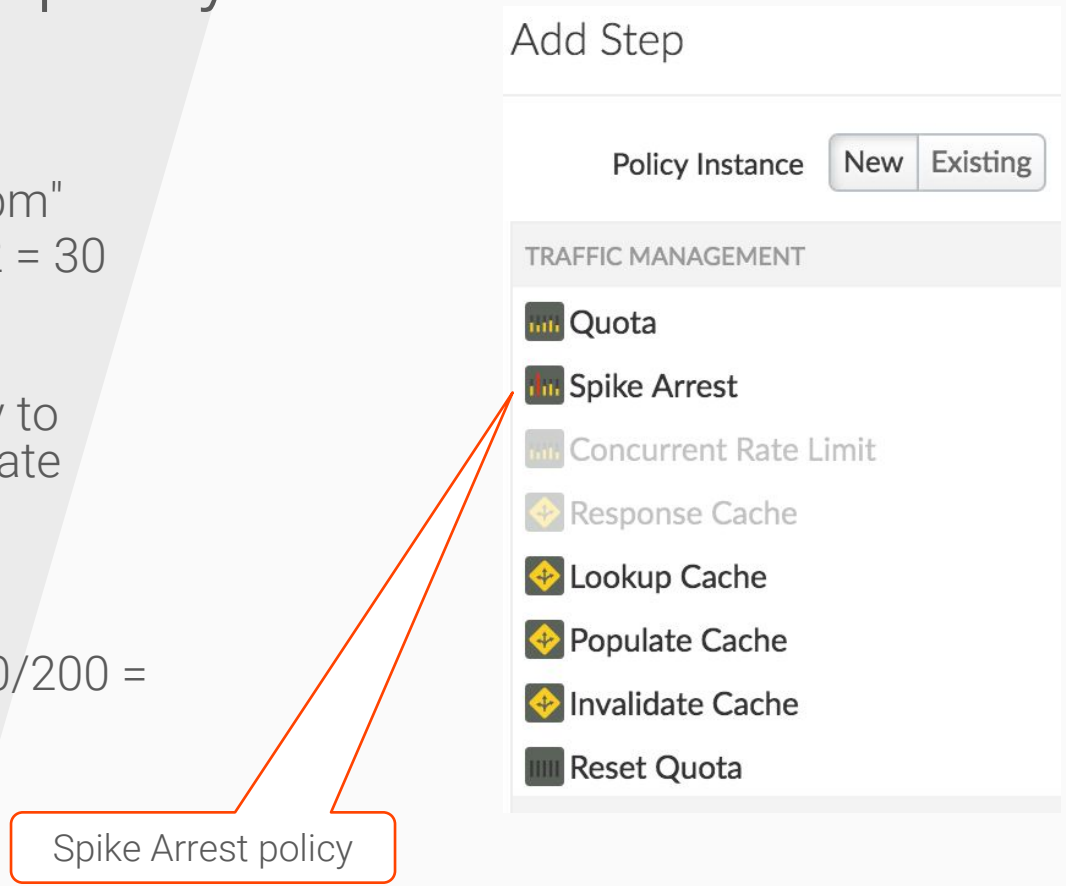
Wherein ...

- We also choose to add traffic throttling designed to mediate DDOS attacks, and

- Also want to manage how many requests individuals can make to our systems

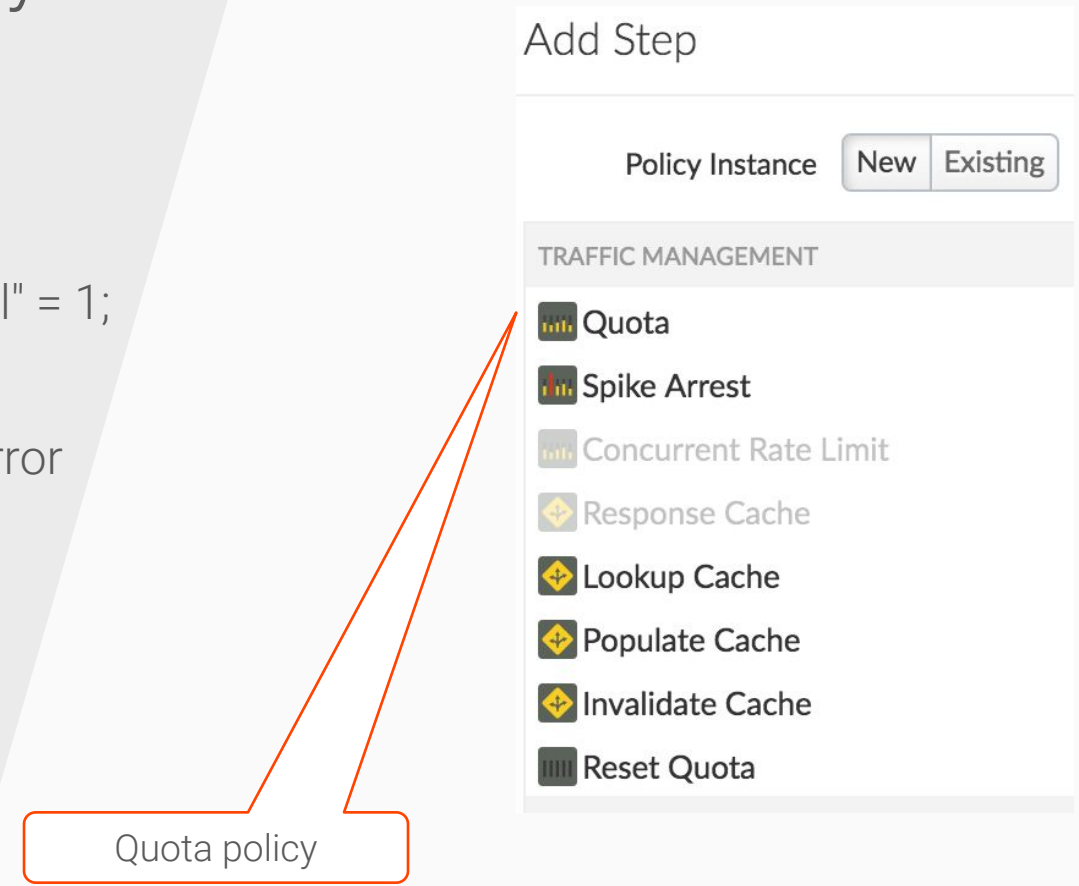
Add a Spike Arrest policy

- Start Policy <Rate> @ "2pm"
  - 1 request every 60/2 = 30 secs
- In Trace, Send repeatedly to Test for "500" error (validate policy is working)
- Reset <Rate> to "200ps"
  - 1 request every 1000/200 = 5 msec



Add a Quota policy

- Start Policy @ "2pm"
  - "Allow" – 2 ; "Interval" = 1; "TimeUnit" = minute
- In trace, Test for "500" error code
- Reset "Allow" to "50"



Quota Policy - Feed values from the API Product

- Find the API Product Quota variable names (in the docs or trace); Test

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Quota async="false" continueOnError="false" enabled="true" name="Quota-1" type="rollingwindow">
    <DisplayName>Quota-1</DisplayName>
    <Properties/>
    <Allow count="2" countRef="verifyapikey.Verify-API-Key-1.apiproduct.developer.quota.limit"/>
    <Interval ref="verifyapikey.Verify-API-Key-1.apiproduct.developer.quota.interval">1</Interval>
    <TimeUnit ref="verifyapikey.Verify-API-Key-1.apiproduct.developer.quota.timeunit">minute</TimeUnit>
    <Distributed>true</Distributed>
    <Synchronous>true</Synchronous>
    <StartTime>2016-6-1 12:00:00</StartTime>
</Quota>
```

THANK YOU